CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22 Date:04.03.2022

TEST REPORT ON CEMENT

Client : **Executive Engineer,** Project Division R R Nagar Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of Work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Sample : : Cement (Ramco 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : February- 2022

Date of Testing : 02.03.2022 to 04.03.2022

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	360 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00%	-

ESS ESS BUILDERS * Bengaluru & Hassan Reg No 2555343 * Architects

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

AE/JE (P) R.R.N

Assistant Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
Rajarajeshwari Nagar Zone

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22 Date : 04.03.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** Project Division R R Nagar Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of Work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Date of Testing : 04.03.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	77	7.70	7.70	92.3	90-100
2.36	115	11.50	19.20	80.8	75-100
1.18	189	18.90	38.10	61.9	55-90
600 Micron	224	22.40	60.50	39.5	35-59
300 Micron	165	16.50	77.00	23.0	8-30
150 Micron	183	18.30	95.30	4.7	0-10

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Assistant Executive Engineer (Project)
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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date : 04.03.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** Project Division R R Nagar Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of Work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Date of Testing : 04.03.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	207	1.38	1.38	98.62	95-100
20	8251	55.01	56.39	43.61	30-70
10	3214	21.43	77.81	22.19	10-35
4.75	2759	18.39	96.21	3.79	0-5

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date : 04.03.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** Project Division R R Nagar Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of Work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Date of Testing : 04.03.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	209	4.2	4.2	95.8	95-100
10	2355	47.1	51.3	48.7	25-55
4.75	2067	41.3	92.6	7.4	0-10

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date : 04.03.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Executive Engineer,** Project Division R R Nagar Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of Work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Date of Testing : 04.03.2022

Material : Plastering Sand

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	24	2.40	2.40	97.6	95-100
2.36	21	2.10	4.50	95.5	95-100
1.18	38	3.80	8.30	91.7	90-100
600 Micron	65	6.50	14.80	85.2	80-100
300 Micron	229	22.90	37.70	62.3	20-65
150 Micron	502	50.20	87.90	12.1	0-15

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 09.03.2022

TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Client	: **Executive Engineer,** Project Division R R Nagar Zone, BBMP, Bangalore.
Agency	: **M/s. M R Infra,** Contractor, Bangalore.
Consultant Agency	: M/s ESS ESS Builders
Name of Work	: Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.
Reference to BIS codes	: IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2011) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	04.03.2022 to 09.03.2022

COMPRESSIVE STRENGTH

Sl.No.	Compressive strength of individual bricks (N/mm2)	Acceptability as per IS 1077:1992, Clause 7.1
1	5.6	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	5.2	
3	5.4	
4	5.3	
5	5.1	
Average of 5 bricks	5.3	

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

WATER ABSORPTION:

Sl.No.	Water Absorption(%)	Acceptability as per IS 1077:1992, Clause 7.2
1	10.8	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	10.5	
3	10.2	
4	10.4	
5	10.6	
Average of 5 bricks	**10.5**	

EFFLORESCENCE:

Sl.No.	Efflorescence	Acceptability as per IS 1077:1992, Clause 7.3
1	Moderate	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higher classes.
2	Moderate	
3	Moderate	
4	Moderate	
5	Moderate	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2195	2160 to 2240 mm
3	Height	1415	1360 to 1440 mm

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Testing of Construction Material - Machanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 27.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of the work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Sample ID : Cement Concrete (Third Floor Column Concrete)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.04.2022	27.04.2022	8.159	521.6	23.18
2	20.04.2022	27.04.2022	8.123	503.9	22.40
3	20.04.2022	27.04.2022	8.047	518.5	23.04

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 12.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency	: **M/s. M R Infra,** Contractor, Bangalore.
Consultant Agency	: M/s ESS ESS Builders
Name of the work	: Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.
Sample ID	: Cement Concrete (Third floor Roof Beam and Slab concrete)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2022	12.05.2022	8.090	510.8	22.70
2	05.05.2022	12.05.2022	8.037	500.3	22.24
3	05.05.2022	12.05.2022	8.064	528.5	23.49

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 12.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency	: **M/s. M R Infra,** Contractor, Bangalore.
Consultant Agency	: M/s ESS ESS Builders
Name of the work	: Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.
Sample ID	: Cement Concrete (Third floor Roof Beam and Slab concrete)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2022	12.05.2022	8.148	500.7	22.25
2	05.05.2022	12.05.2022	8.115	519.6	23.09
3	05.05.2022	12.05.2022	8.072	529.9	23.55

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22 Date: 18.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of the work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Sample ID : Cement Concrete (Third Floor Column Concrete)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.04.2022	18.05.2022	8.016	715.2	31.79
2	20.04.2022	18.05.2022	8.059	706.3	31.39
3	20.04.2022	18.05.2022	8.087	724.4	32.20

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 02.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency	: **M/s. M R Infra,** Contractor, Bangalore.
Consultant Agency	: M/s ESS ESS Builders
Name of the work	: Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.
Sample ID	: Cement Concrete (Third floor Roof Beam and Slab concrete)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2022	02.06.2022	8.160	700.9	31.15
2	05.05.2022	02.06.2022	8.198	717.4	31.88
3	05.05.2022	02.06.2022	8.105	727.5	32.33

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 02.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of the work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Sample ID : Cement Concrete (Third floor Roof Beam and Slab concrete)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2022	02.06.2022	8.018	723.6	32.16
2	05.05.2022	02.06.2022	8.025	711.4	31.62
3	05.05.2022	02.06.2022	8.079	702.8	31.24

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

ESS ESS BUILDERS * Consulting Engineer & Architects * Bengaluru & Hassan Reg.No 2555343

AE/JE (P) R.R.N

Assistant Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
Rajarajeshwari Nagar Zone

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 29.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of the work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Sample ID : Cement Concrete (Third floor Lintel beam concrete)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.04.2022	29.04.2022	8.018	424.5	18.87
2	22.04.2022	29.04.2022	8.079	413.9	18.40
3	22.04.2022	29.04.2022	8.035	400.7	17.81

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M/S. ESS BUILDERS Bengaluru & Hassan Reg.No 2555343 Engineer & Architects

JE (P) R.R.N

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 20.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of the work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Sample ID : Cement Concrete (Third floor Lintel beam concrete)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.04.2022	20.05.2022	8.120	602.6	26.78
2	22.04.2022	20.05.2022	8.068	629.5	27.98
3	22.04.2022	20.05.2022	8.147	613.7	27.28

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M/s ESS ESS BUILDERS * Engineers & Project Consulting Engineers * Bengaluru & Hassan Reg No 2555343

Assistant Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
Rajarajeshwari Nagar Zone

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 02.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **M/s. M R Infra,** Contractor, Bangalore.

Consultant Agency : M/s ESS ESS Builders

Name of the work : Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.

Sample ID : Cement Concrete (Third floor Chejja Concrete)

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2022	02.05.2022	8.104	362.3	16.10
2	25.04.2022	02.05.2022	8.052	370.8	16.48
3	25.04.2022	02.05.2022	8.017	388.5	17.27

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E/JE (P) R.R.N

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Rajarajeshwari Nagar Zone

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MR/017/2021-22

Date: 23.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency	: **M/s. M R Infra,** Contractor, Bangalore.
Consultant Agency	: M/s ESS ESS Builders
Name of the work	: Construction of Rajarajeshwari school (kalpana) building in ward no.17 J.P Park, BBMP, Bangalore.
Sample ID	: Cement Concrete (Third floor Chejja Concrete)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.04.2022	23.05.2022	8.169	482.3	21.44
2	25.04.2022	23.05.2022	8.192	495.6	22.03
3	25.04.2022	23.05.2022	8.113	507.2	22.54

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